(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 2 June 2005 (02.06.2005)

(10) International Publication Number WO 2005/049099 A2

(51) International Patent Classification7:

A61L 15/00

(21) International Application Number:

PCT/EP2004/012295

- (22) International Filing Date: 29 October 2004 (29.10.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0325354.9

30 October 2003 (30.10.2003)

- (71) Applicant (for all designated States except US): SPIN'TEC ENGINEERING GMBH [DE/DE]; Cannstatter Strasse, 48, 70734 Fellbach (DE).
- (72) Inventor; and
- Inventor/Applicant (for US only): KNIGHT, David, Philip [GB/GB]; 107 Teg Down Meads, Winchester, Hampshire SO22 5NG (GB).
- Agent: ROUSE PATENTS; Windsor House, Cornwall Road, Harrogate HG1 2PW (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FIBRES EMBEDDED IN A GLASSY PROTEIN

(57) Abstract: The application relates to an object (30) having a plurality of elongate elements (10) embedded in a matrix (20). The matrix (20) is made from a glassy protein, preferably including serines. The elongate elements can be fibres such as polymers fibrous protein, glass fibres, carbon fibres, carbon nanotubes and montmorilonite clay particles. The application also discloses a method of making the object (30) and a laminate (50) therefrom.